

LIST OF CLAIMS / AMENDMENTS

Claims 9-21, 31-36, and 39-40 are allowed.

Please cancel claims 2, 23, 27, and 38 without prejudice.

5 Please amend claims 1, 22, 26, and 37 as shown herein.

Claims 1, 3-22, 24-26, 28-37, and 39-40 are pending and are listed following:

1. **(currently amended)** A printing system, comprising:
 - 10 a print unit configured to apply a colorant to a test element and to a print media; and
 - a calibration system configured to:
 - measure one or more colorant levels of the colorant applied to the test element before the colorant is in a finished state;
 - 15 measure one or more color values of the colorant applied to the print media after the colorant is in the finished state; and
 - establish a correlation between the one or more measured colorant levels and the one or more measured color values such that the correlation can be utilized to calibrate the print unit;
 - 20 convert the one or more measured colorant levels to corresponding one or more predicted color values based on the correlation;
 - compare the one or more predicted color values to target color values; and
 - 25 calibrate the print unit if a difference between the one or more predicted color values and the target color values exceeds a threshold value.

2. (canceled)

3. (original) A printing system as recited in claim 1, wherein the
5 test element is a print media transport belt.

4. (original) A printing system as recited in claim 1, wherein the
calibration system is further configured to calibrate the print unit to adjust a
colorant level of the colorant applied to the test element.
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5. (original) A printing system as recited in claim 1, wherein the
colorant is in the finished state after being fused onto the print media.

6. (original) A printing system as recited in claim 1, wherein the
15 colorant is in the finished state after being formed as a permanent image on the
print media.

7. (original) A printing system as recited in claim 1, wherein the
calibration system comprises one or more sensors configured to measure the
20 one or more colorant levels and the one or more color values.

8. (original) A printing system as recited in claim 1, wherein the
printing system is a printing device.

9. **(previously presented)** A printing system, comprising:
a print unit configured to apply a colorant to a test element; and
a calibration system configured to:

measure one or more colorant levels of the colorant applied to the
test element before the colorant is in a finished state;

convert the one or more measured colorant levels to
corresponding one or more predicted color values;

compare the one or more predicted color values to target color
values; and

calibrate the print unit if a difference between the one or more
predicted color values and the target color values exceeds a threshold
value.

10. **(original)** A printing system as recited in claim 9, wherein the
test element is a print media transport belt.

11. **(previously presented)** A printing system as recited in
claim 9, wherein the print unit is further configured to apply the colorant to a
print media, and wherein the calibration system is further configured to:

measure one or more color values of the colorant applied to the print
media after the colorant is in the finished state; and

establish a correlation between the one or more measured colorant levels
and the one or more measured color values, the one or more predicted color
values being based on the correlation.

12. **(original)** A printing system as recited in claim 11, wherein
the colorant is in the finished state after being fused onto the print media.

13. (original) A printing system as recited in claim 11, wherein the colorant is in the finished state after being formed as a permanent image on the print media.

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14. (original) A printing system as recited in claim 11, wherein the calibration system comprises one or more sensors configured to measure the one or more colorant levels and the one or more color values.

10 15. (original) A printing system as recited in claim 11, wherein the printing system is a printing device.

16. (currently amended) A printing system, comprising:
a print unit; and

15 a calibration system configured to calibrate the print unit, the calibration system having selectable calibration modes including:

a first calibration mode configured to (i) measure colorant levels of a colorant applied to a test element, (ii) convert the measured colorant levels to predicted color values, (iii) compare the predicted color values to target color values, and ~~(iii)~~ (iv) calibrate the print unit to adjust the a colorant level applied to the test element if a difference between the predicted color values and the target color values exceeds a threshold value; and

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a second calibration mode configured to (i) measure color values of the colorant applied to a print media after the colorant is in a finished state, and (ii) establish a correlation between the measured colorant levels and the measured color values.

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17. **(original)** A printing system as recited in claim 16, wherein the second calibration mode is selected less frequently than the first calibration mode to calibrate the print unit.

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18. **(original)** A printing system as recited in claim 16, wherein the calibration system comprises one or more optical sensors configured to measure the colorant levels and the color values.

10 19. **(original)** A printing system as recited in claim 16, wherein the print unit is configured to fuse the colorant on to the print media such that the colorant is in the finished state.

20. **(original)** A printing system as recited in claim 16, wherein the print unit is configured to form the colorant as a permanent image on to the
15 print media in the finished state.

21. **(original)** A printing system as recited in claim 16, wherein the printing system is a printing device.

22. (currently amended) One or more computer-readable media comprising computer-executable instructions that, when executed, direct a printing device to:

measure colorant levels of a colorant applied to a test element before the
5 colorant is in a finished state;

measure color values of the colorant applied to a print media after the colorant is in the finished state; and

establish a correlation between the measured colorant levels and the measured color values such that the correlation can be utilized to calibrate a
10 print unit;

convert the measured colorant levels to corresponding predicted color values based on the correlation;

compare the predicted color values to target color values; and

calibrate the print unit if a difference between the predicted color values
15 and the target color values exceeds a threshold value.

23. (canceled)

24. (original) One or more computer-readable media as recited in
20 claim 22, further comprising computer-executable instructions that, when executed, direct the printing device to calibrate the print unit to adjust a colorant level of the colorant applied to the test element.

25. (original) One or more computer-readable media as recited in
25 claim 22, further comprising computer-executable instructions that, when executed, direct the printing device to operate in conjunction with a calibration system.

26. (currently amended) A method, comprising:
measuring colorant levels of a colorant applied to a test element before
the colorant is in a finished state;

5 measuring color values of the colorant applied to a print media after the
colorant is in the finished state; and

establishing a correlation between the measured colorant levels and the
measured color values such that the correlation can be utilized to calibrate a
print unit;

10 converting the measured colorant levels to corresponding predicted
color values based on the correlation;

comparing the predicted color values to target color values; and

calibrating a print unit if a difference between the predicted color values
and the target color values exceeds a threshold value.

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27. (canceled)

28. (original) A method as recited in claim 26, further comprising
fusing the colorant applied to the print media to form the colorant in the
20 finished state.

29. (original) A method as recited in claim 26, further comprising
forming the colorant as a permanent image on the print media in the finished
state.

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30. (original) A method as recited in claim 26, further comprising
measuring the colorant levels and the color values with one or more sensors.

31. (previously presented) A method, comprising:

measuring colorant levels of a colorant applied to a test element before
the colorant is in a finished state;

5 converting the measured colorant levels to corresponding predicted
color values;

comparing the predicted color values to target color values; and

calibrating a print unit if a difference between the predicted color values
and the target color values exceeds a threshold value.

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32. (previously presented) A method as recited in claim 31,
further comprising:

measuring color values of the colorant applied to a print media after the
colorant is in the finished state; and

15 establishing a correlation between the measured colorant levels and the
measured color values.

33. (original) A method as recited in claim 32, further comprising
fusing the colorant applied to the print media to form the colorant in the
20 finished state.

34. (original) A method as recited in claim 32, further comprising
forming the colorant as a permanent image on the print media in the finished
state.

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35. (original) A method as recited in claim 32, further comprising
measuring the colorant levels and the color values with one or more sensors.

36. (previously presented) A method for calibrating a printer comprising selecting one or more calibration modes, wherein:

a first calibration mode includes:

5 measuring colorant levels of a colorant applied to a test element;
 converting the measured colorant levels to predicted color values;
 comparing the predicted color values to target color values;
 calibrating the printer if a difference between the predicted color
values and the target color values exceeds a threshold value; and

10 a second calibration mode includes:

 measuring color values of the colorant applied to a print media
after the colorant is in a finished state; and

 establishing a correlation between the measured colorant levels
and the measured color values.

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37. (currently amended) A method, comprising:

measuring colorant levels of a colorant applied on a test element;

printing the colorant on a print media;

forming the colorant as a permanent image on the print media;

20 measuring color values of the colorant formed as the permanent image
on the print media; and

 establishing a correlation between the measured colorant levels and the
measured color values;

25 converting the measured colorant levels to corresponding predicted
color values based on the correlation;

comparing the predicted color values to target color values; and

calibrating a print unit if a difference between the predicted color values and the target color values exceeds a threshold value.

38. (canceled)

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39. (original) One or more computer-readable media comprising computer-executable instructions that, when executed, direct a printing device to:

deposit colorant onto a test element;

10 measure colorant levels of the colorant in a pre-fused state;

print the colorant on a print media;

form the colorant as a permanent image on the print media;

measure color values of the colorant formed as the permanent image on the print media;

15 establish a correlation between the measured colorant levels and the measured color values;

convert the measured colorant levels to corresponding predicted color values based on the correlation;

compare the predicted color values to target color values; and

20 calibrate a print unit if a difference between the predicted color values and the target color values exceeds a threshold value.

40. (original) A system for calibrating a printing device, comprising:

means for depositing colorant onto a print media and onto a test element;

5 means for forming the colorant as a permanent image on the print media;

means for measuring colorant levels of the colorant deposited on the test element, and for measuring color values of the colorant after being formed as a permanent image on the print media;

10 means for establishing a correlation between the measured colorant levels and the measured color values;

means for converting measured colorant levels to corresponding predicted color values based on the correlation;

means for comparing the predicted color values to target color values;

15 and

means for calibrating a print unit if a difference between the predicted color values and the target color values exceeds a threshold value.